

California Department of Transportation

Authorized Materials List for Highway Safety Features

7/29/2026

MASH Implementation Website: <https://dot.ca.gov/programs/safety-programs/MASH>

Caltrans approved vendor drawings, links to vendor websites, and Caltrans product approval memos can be found on the link above.

Crash Cushions

Product Name	P ¹	T ²	N ³	W ⁴	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
ABSORB-M Crash Cushion System, TL-2 (2 element)	-	X	X	-	Lindsay Transportation Solutions	MASH	3/2028	Excluded Materials per 2 CFR 184.3
ABSORB-M Crash Cushion System, TL-3 (3 element)	-	X	X	-	Lindsay Transportation Solutions	MASH	3/2028	Excluded Materials per 2 CFR 184.3
ABSORB-RZ, TL-3 use with QMB-CRTS only	-	X	X	-	Lindsay Transportation Solutions	MASH	9/2027	Excluded Materials per 2 CFR 184.3
ArmorBuffa, TL-3 (4 element)	-	X	X	-	Valtir, LLC	MASH	9/2027	Excluded Materials per 2 CFR 184.3
Big Sandy Inertial Crash Cushion System (ICS), TL-3	-	X	X	-	TraFFix Devices, Inc.	MASH	4/2028	Manufactured Product, final assembly (manufacturing) in US
CrashGard Sand Barrel (CC-48), TL-3	-	X	X	-	Plastic Safety Systems, Inc.	350	12/2026	Excluded Materials per 2 CFR 184.3
Delta Crash Cushion, TL-3	X	-	X	-	TraFFix Devices, Inc.	MASH	7/2025	Steel and Iron, melted and manufactured in US
Energite III Modified Sand Barrel Array, TL-3	X	X	X	-	Valtir, LLC	MASH	4/2026	Manufactured Product, 55% or higher cost and final assembly in US

Legend: 1. P - Permanent, 2. T - Temporary, 3. N - Narrow, 4. W - Wide

*As attested to by the supplier.

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California Department of Transportation
Authorized Materials List for Highway Safety Features

7/29/2026

Crash Cushions (continued)

Product Name	P ¹	T ²	N ³	W ⁴	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
QuadGuard Elite M10, TL-3	X	-	X	-	Valtir, LLC	MASH	4/2028	Frame - Steel and Iron, melted and manufactured in US Cylinders - Manufactured Product, 55% or higher cost and final assembly in US
QuadGuard Elite M10 Wide, TL-3	X	-	-	X	Valtir, LLC	MASH	4/2028	Frame - Steel and Iron, melted and manufactured in US Cylinders - Manufactured Product, 55% or higher cost and final assembly in US
QuadGuard M Wide, TL-3	X	-	-	X	Valtir, LLC	MASH	4/2028	Frame - Steel and Iron, melted and manufactured in US Cylinders - Manufactured Product, 55% or higher cost and final assembly in US
QuadGuard M10, TL-3	X	-	X	-	Valtir, LLC	MASH	4/2028	Frame - Steel and Iron, melted and manufactured in US Cylinders - Manufactured Product, 55% or higher cost and final assembly in US
QuadGuard M10 24-In Wide, TL-2	X	-	X	-	Valtir, LLC	MASH	4/2028	Frame - Steel and Iron, melted and manufactured in US Cylinders - Manufactured Product, 55% or higher cost and final assembly in US

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Authorized Materials List for Highway Safety Features

7/29/2026

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Product Name	P ¹	T ²	N ³	W ⁴	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
QUASH Crash Cushion System, TL2 (4 element)	-	X	X	-	MOOVOP, Inc.	MASH	7/2027	Excluded Materials per 2 CFR 184.3
QUASH Crash Cushion System, TL-3 (6 element)	-	X	X	-	MOOVOP, Inc.	MASH	7/2027	Excluded Materials per 2 CFR 184.3
REACT M, TL-3	X	X	X	-	Valtir, LLC	MASH	2/2027	Frame - Steel and Iron, melted and manufactured in US Cylinders - Manufactured Product, 55% or higher cost and final assembly in US
SCI-70GM, TL-2	X	-	X	-	Hill & Smith, Inc.	MASH	3/2028	Unconfirmed
SCI-100GM, TL-3	X	-	X	-	Hill & Smith, Inc.	MASH	3/2028	Unconfirmed
Sentry Longitudinal Energy Dissipater (SLED), TL-3	-	X	X	-	TraFFix Devices, Inc.	MASH	4/2028	Excluded Materials per 2 CFR 184.3
SMART Crash Cushion Variable Width Transition, TL-3	X	-	-	X	Hill & Smith, Inc.	MASH	2/2026	Unconfirmed
SmartPod Crash Cushion, TL-3	X	X	X	-	Hill & Smith, Inc.	MASH	10/2026	Unconfirmed
TAU-XR Crash Cushion, TL-3	X	X	X	X	Barrier Systems by Lindsay	MASH	10/2026	Steel and Iron, melted and manufactured in US
Universal TAU-M Parallel Crash Cushion, TL-2 (4 element)	X	-	X	X	Barrier Systems by Lindsay	MASH	6/2026	Steel and Iron, melted and manufactured in US
Universal TAU-M Parallel Crash Cushion, TL-3 (7 element)	X	-	X	X	Barrier Systems by Lindsay	MASH	6/2026	Steel and Iron, melted and manufactured in US

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Authorized Materials List for Highway Safety Features

7/29/2026

End Terminals

Product Name	F ¹	I ²	M ³	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
MASH Flared Terminal (MFLEAT), TL-3	X	-	-	Road Systems, Inc. (RSI)	MASH	7/2027	Steel and Iron, melted and manufactured in US
MAX-Tension Median Terminal, TL-3	-	-	X	Barrier Systems by Lindsay	MASH	11/2027	Steel and Iron, melted and manufactured in US
MAX-Tension Tangent Guardrail Terminal, TL-2	-	X	-	Barrier Systems by Lindsay	MASH	6/2026	Steel and Iron, melted and manufactured in US
MAX-Tension Tangent Guardrail Terminal, TL-3	-	X	-	Barrier Systems by Lindsay	MASH	6/2026	Steel and Iron, melted and manufactured in US
Median Attenuating Trend Terminal (MATT), TL-3	-	-	X	Valtir, LLC	MASH	11/2027	Steel and Iron, melted and manufactured in US
Sequential Kinking Terminal-Standard Post-Midwest Guardrail system (MSKT-SP-MGS), TL-2	-	X	-	Road Systems, Inc. (RSI)	MASH	8/2026	Steel and Iron, melted and manufactured in US
Sequential Kinking Terminal-Standard Post-Midwest Guardrail system (MSKT-SP-MGS), TL-3	-	X	-	Road Systems, Inc. (RSI)	MASH	8/2026	Steel and Iron, melted and manufactured in US
SoftStop System Tangent End Terminal, 8-in/12-in block, TL-1	-	X	-	Valtir, LLC	MASH	5/2027	Steel and Iron, melted and manufactured in US
SoftStop System Tangent End Terminal, 8-in/12-in block, TL-2	-	X	-	Valtir, LLC	MASH	4/2028	Steel and Iron, melted and manufactured in US
SoftStop System Tangent End Terminal, 8in/12-in block, TL-3	-	X	-	Valtir, LLC	MASH	4/2028	Steel and Iron, melted and manufactured in US

Legend: 1. F - Flared, 2. I - Inline, 3. M - Median

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California Department of Transportation

Authorized Materials List for Highway Safety Features

7/29/2026

End Terminals (continued)

Product Name	F ¹	I ²	M ³	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
SPIG Gating End Terminal (SGET), TL-3	-	X	-	SPIG Industry, LLC	MASH	1/2027	Steel and Iron, melted and manufactured in US
4-Foot Flared Trend (4F-T), TL-3	X	-	-	Valtir, LLC	MASH	11/2027	Steel and Iron, melted and manufactured in US

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Barriers

Product Name	P ¹	T ²	M ³	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
ArmorGuard Barrier, TL-3	X	-	-	Barrier Systems by Lindsay	350	12/2026	Steel and Iron, melted and manufactured in US
BarrierGate (BG 1.5), TL-3	X	-	-	Valtir, LLC	350	12/2026	Frame - Steel and Iron, melted and manufactured in US Controls (for Automated Operation only) - Manufactured Product, 55% or higher cost and final assembly in US
Brifen Wire Rope Safety Fence (WRSF), O-post, TL-3	X	-	-	Brifen USA, Inc.	MASH	3/2028	Steel and Iron, melted and manufactured in US

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California Department of Transportation
Authorized Materials List for Highway Safety Features

7/29/2026

Barriers (continued)

Product Name	P ¹	T ²	M ³	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
Defender Barrier System 100 High Containment (100HC), TL-4	-	X	-	Safe Barriers, LLC	MASH	4/2026	Excluded Materials per 2 CFR 184.3
Defender Barrier System 100 Low Deflection System (100LDS), TL-3	-	X	-	Safe Barriers, LLC	MASH	4/2026	Excluded Materials per 2 CFR 184.3
J-J Hooks, Freestanding, Staked-down, Bolted-down Precast Concrete Barriers, TL-3	-	X	-	Easi-Set Worldwide	MASH	6/2026	Excluded Materials per 2 CFR 184.3
HighwayGuard LDS TL-3	-	X	-	Valtir, LLC	MASH	7/2026	Excluded Materials per 2 CFR 184.3
HighwayGuard MDS TL-3	-	X	-	Valtir, LLC	MASH	7/2026	Excluded Materials per 2 CFR 184.3
HighwayGuard SDS TL-3	-	X	-	Valtir, LLC	MASH	7/2026	Excluded Materials per 2 CFR 184.3
HV2 Steel Safety Barrier, TL-3/TL-4	-	X	-	Saferoads	MASH	8/2024	Excluded Materials per 2 CFR 184.3
Pro-Cast Rigid Barriers (ProMASH), TL-3	-	X	-	Procast-Products Inc.	MASH	5/2028	Excluded Materials per 2 CFR 184.3
QuickChange Moveable Barrier Concrete Reactive Tension system (QMB-CRTS), TL-3	-	-	X	Lindsay Transportation Solutions	MASH	6/2028	Manufactured Product, 55% or higher cost and final assembly in US
REBLOC 80SAH_12, TL-3	-	X	-	REBLOC, Inc	MASH	4/2027	Excluded Materials per 2 CFR 184.3
TALL42 Moveable Barrier, TL-3	-	-	X	MOOVOP, Inc.	MASH	7/2027	Manufactured Product, 55% or higher cost and final assembly in US
Zoneguard, TL-3	-	X	-	Hill & Smith, Inc	MASH	2/2026	Excluded Materials per 2 CFR 184.3

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7/29/2026

Truck and Trailer Mounted Attenuators

Product Name*	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information**
ALPHA DXM TMA, TL-2, 16,100 - 26,500 lbs	Valtir, LLC	MASH	5/2026	Excluded Materials per 2 CFR 184.3
BLADE-TMA, TL-3, 16,100 - 21,000 lbs	Verdegro, USA LLC	MASH	8/2028	Excluded Materials per 2 CFR 184.3
MPS-350 Truck Mounted Attenuator (TMA), TL-3 16,100 - 21,000 lbs	Valtir, LLC	350	12/2026	Excluded Materials per 2 CFR 184.3
Safe-Stop Trailer (SST), TL-3, 16,100 - 54,000 lbs	Valtir, LLC	350	12/2026	Excluded Materials per 2 CFR 184.3
Scorpion 10,000 A, TL-2, 16,100 - 26,400 lbs	TraFFix Devices, Inc.	350	12/2026	Excluded Materials per 2 CFR 184.3
Scorpion 10,000 C, TL-3, 16,100 - 54,000 lbs	TraFFix Devices, Inc.	350	12/2026	Excluded Materials per 2 CFR 184.3
Scorpion II Metro Truck Mounted Attenuator, TL-2 16,100 lbs - no maximum	TraFFix Devices, Inc.	MASH	8/2028	Excluded Materials per 2 CFR 184.3
Scorpion II Trailer Attenuator (TA), TL-3 16,100 lbs - no maximum	TraFFix Devices, Inc.	MASH	10/2026	Excluded Materials per 2 CFR 184.3
Scorpion II Truck Mounted Attenuator, TL-3 16,100 lbs - no maximum	TraFFix Devices, Inc.	MASH	10/2026	Excluded Materials per 2 CFR 184.3
Scorpion Trailer, TL-3, 16,100 - 54,000 lbs	TraFFix Devices, Inc.	350	12/2026	Excluded Materials per 2 CFR 184.3
SMT, TL-3, 16,100 - 25,000 lbs	Valtir, LLC	MASH	4/2028	Excluded Materials per 2 CFR 184.3
SS180 M, TL-3, 16,100 - 25,000 lbs	Valtir, LLC	MASH	4/2028	Excluded Materials per 2 CFR 184.3
SS90 HD, TL-3, 16,100 - 21,000 lbs	Valtir, LLC	350	12/2026	Excluded Materials per 2 CFR 184.3

*Allowable support truck weight

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Truck and Trailer Mounted Attenuators (continued)

Product Name*	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information**
TTMA-100 Trailer Mounted Attenuator, TL-3 16,100 - 54,000 lbs	Gregory Industries, Inc.	350	12/2026	Excluded Materials per 2 CFR 184.3
TTMA-200 Trailer Mounted Attenuator, TL-3 16,100 - no maximum	Gregory Industries, Inc.	MASH	7/2025	Excluded Materials per 2 CFR 184.3
VORTEQ M TTMA, TL-3, 16,100 - no maximum	Valtir, LLC	MASH	5/2026	Excluded Materials per 2 CFR 184.3

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Miscellaneous

Product Name	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
King MASH16 Composite Block, 8-in, TL-3	Valtir, LLC	MASH	4/2028	Manufactured Product, 55% or higher cost and final assembly in US
King MASH16 Composite Block, 12-in, TL-3	Valtir, LLC	MASH	4/2028	Manufactured Product, 55% or higher cost and final assembly in US
Mondo Block Model GB14SH1, 8-in block, TL-3	Mondo Polymer Technologies	MASH	7/2028	Manufactured Product, final assembly (manufacturing) in US
Mondo Block Model MGS14SH, 12-in block, TL-3	Mondo Polymer Technologies	MASH	06/2028	Manufactured Product, final assembly (manufacturing) in US
Mondo Recycled Polymer Offset Block Model TB21SH, TL-3	Mondo Polymer Technologies	350	1/2029	Manufactured Product, final assembly (manufacturing) in US

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Miscellaneous (continued)

Product Name	Manufacturer	350/ MASH	Re- Authorization	BABA Act Information*
Redi-Torque Slip Base System, Model 280 Breakaway, TL-3	Xcessories Squared Development & Mfg., Inc.	350	12/2026	Unconfirmed
SQR-LOC, TL-3	Valtir, LLC.	MASH	8/2027	Steel and Iron, melted and manufactured in US
Type B call box, TL-3	N/A	350	12/2026	Unconfirmed
Type F call box, TL-3	N/A	350	12/2026	Unconfirmed
V-Loc sign and Mailbox Anchoring System, Breakaway	Traffic & Parking Control Co., Inc.	350	12/2026	Unconfirmed

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OCCS Standards: <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>

Standard Plans User Guides: <https://dot.ca.gov/programs/engineering-services/manuals/standard-plans-user-guides>

Bridge Standard Details: <https://dot.ca.gov/programs/engineering-services/manuals/bridge-standard-details>